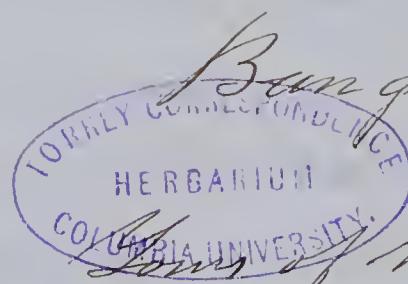


J. Torrey
Dear Sir



Bangor Sept 8th 1849

Some of the 20th ult. came to the hands of my family during my absence on an excursion to Abn. Watahdo.

I thank you for your kind attention, and do particularly for the excellent suggestions relative to the Algae of our coast and the interior waters.

I have somewhat anticipated you in some particulars - especially with regard to our Maine flora, having been in correspondence and engaged in exchanging with Dr. W. H. Bailey for the last 6 mos. Dr. Gray, I am also favorably acquainted with, and have endeavored to supply him with ^{all} the information in my power respecting the geographical range of plants &c for his forthcoming manual. And I hope that the little information I am now about to impart will be of some service to the "1st part," completing the 2d vol of your "North Amer. Flora" particularly the order Eriaceae &c —

My exploration of Abn. Watahdo, which cost me 14 days of most severe labor, and the hardest of my life, now settles the question conclusively, in my mind, — that we have here in Maine an Alpine region more worthy the attention of Botanists than has been supposed.

and from which we are yet to call, all
the plants so eagerly sought, on the celebrated
"White Will"!

The collection I this day send you contains
the result of my labors, and I hope you will
do me an early favor by returning to me
your opinion respecting some few which
I have not named - The labels will give
you all the information respecting each you may
probably desire - The grasses I am quite un-
tutored about, and particularly the two little,
soft, velvety evergreens - I have not any opinion
or rather knowledge, of the "White Will" plants
and in bringing so many at once from the
A.A. in our State, makes me peculiarly em-
barassed in study. Such as I have studied,
I believe I have correctly labeled!

You will find a number of species -
indeed common enough, in the suit I send
you of no importance to you except as com-
munity from Maine! I threw them in, more
in account of their being fruited species,
and I trust well preserved.

I took with me an excellent Barometer
and endeavored to measure the altitude
of the regions I collected in, as well as
to take a correct altitude of the A.A.
I confirm Dr. Jackson viz., 5,300 feet
above the level of the sea! will consequently

The second highest Mt. in New-England,
and, O. horridus! the most formidable the
climb - We commenced ascending at 2 O'
clock Tuesday, and did not get to the summit
until the next day at 5 P.M. Home, at an
elevation of 5000 feet ~~but~~^{is} there is a Botanical
field of not less than 25 square miles!
And all around the sides, except the N.E.
one contained abrupt precipice!

I passed two days Botanizing on the summit
and flanks and gave that Mt. such an
exploration as the world seemed before.
Prof. Bailey got too soon disengaged & few,
in his account! Well, anybody will make
trial!

I have sent you as many duplicates
as I can now conveniently spare with
my other engagements - but should you
be in want of any particular ones you
will of course inform me as I may be
well supplied with such!

In regard to your "Flora", I would say,
that I do much desire to possess it, but
did not intend to put you at any minimum
for me, I am willing and want to buy
it at a reasonable price, and when you
can learn of its being offered your attention
to its purchase will be requested to be an
early remittance of the money from me -

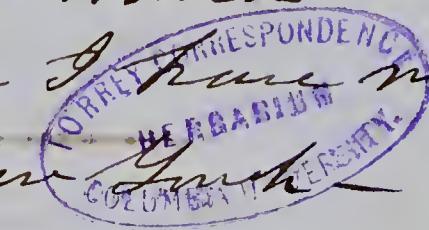
my income is not large enough to pay
exhibitantly for Books - tho' I should be glad
to be in possession of all the New York Repts,
and wish I could see the opportunity to procure
them at 1.50 per vol — as offered to Academicians

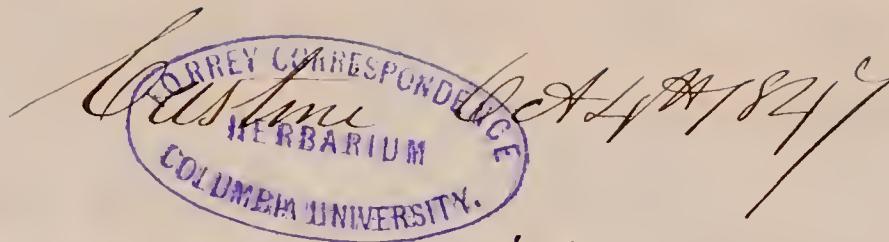
I shall esteem it a great favor to send
you any parcels of my collections, and especially
to receive any remittance from you hands during
my Survey — Any Specimens you may be
in want of I will furnish you with if possible!

I have in readiness a suit of the same
sort you sent Dr. Gray, and which goes by
the same hands. I shall leave for the
Coast in a few days, intending to spend
some days in dredging for Marine plants
at the advice of Mooney! Any letters from
you will be forwarded to me ~~wherever I~~
~~may be~~, by my family. My own herbarium
is quite large — ~~until~~ I am continually adding
to it — Should you possess anything new that
would be of interest to me I would be
happy to receive it — I believe I have not a
specimen representative of Pine Gash at the
I am rich in Spines from Pennsylvania & New Jersey.

Now, my dear Sir, I trust you will be able
to decipher this hurried letter as I have been
anxious to get it away this morning by the Boat,
trusting that the package will arrive safe at hand.

I remain very truly yours
A. Gray Jr.





My dear Sir

Yours of the 27th inst. came to hand at this place, forwarded by my family. This is the present place of my labors - having been engaged dredging in the harbor, and "Pulfrat bay, for 6 days -

For some reason or other I do not seem to be successful - the plants do not come up. If, indeed, they adhere to the rocks as firmly as some species do on our shores, other means than dredging will have to be resorted to - I have, however, been quite successful in collecting Sponges and Corallines - of the former - at least 6 species - some of them equal in texture and fineness to the best of Turkey sponge - they want tenacity to make them useful!

Now, where am I going to get the necessary information respecting the name of these objects! They hold a disputed ground between animals and vegetables - but must, I think, come under the latter.

I have not failed to collect the parasitic worms and infusory animals infesting the algae, and have preserved several species in a solution of bluish Soda & common muriate for Dr. Bailey. I had almost lost that I had made

a division the other day, which, would in a
moment, settle the varied question on sponge
restauration.

I dredged up some fine specimens of
the Spongia arborescens? and the cells or pores
seem to be literally filled with animalculæ.
The most sprightly follows I ever saw.
Their action, at first, had the appearance of the innumerable
lively spines of the Asterias! I supposed, of course,
they were the busy followers building up the sponge
as do the insects at coral making. These pulsings
were, however, removed yesterday - by dredging
up some Dulse which was covered with
them -

I thank you for the list presented me
naming my unknown species of Phatostoma. Prof.
Gray has forwarded me his views - He calls
the two species of Haliotis - S. herbacea & refexa.
One Agrostis he did not know - or what he
considered an agrostis - the same "you call the
Poa lata". I, however, send him my views,
or rather article for the American Journal containing
a list of the species found at Phatostoma, which
he has probably forwarded to the editors.

I have been richly paid for dredging by
the excellent collection of shells I have
made, being something of a conchologist.
I shall soon send a list of them to the
Scientific journals - our coast is very rich
in shells ^{now} which I think are unknown to

ould as occurring in Maine.

In a few days I shall follow the coast eastward to Eastport - taking passage in the U.S. Revenue cutter "Neto", Capt. Ross who will allow ~~me~~ my freedom for dredging ~~on~~ our way!

I shall without doubt make a second visit to Matapedia river in mid July. Snow usually remains on the Mts until the 1st of July which will make it difficult to get up, and besides dangerous, especially while the Mts. is wet.

I will send Bailey Informing you when I can get it from interesting places - and also water.

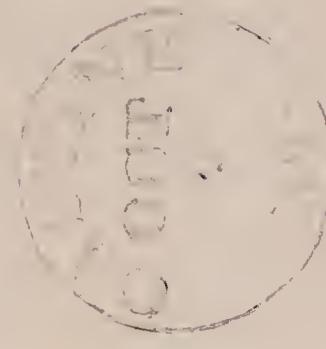
I will endeavor to address you more particularly on my return to my family -

With much esteem

Yours &c

A. Gonyeck.

10



Dr. John Jones
Princeton
N.J.





My dear Sir

Yours of the 3rd ult. was received this morning and I now hasten to answer.

Dr. Gray expressed the same surprise as yourself at the remarkable cheapness of my work. I will now make a brief statement of the expenses attending its publication and the preparation of the volumes —

Promising that one thousand sheets will complete a single copy, which (considering the size of the smaller plants) will do it quite well, I can estimate the cost for 25 copies pretty correctly.

To reams paper contain 960 sheets, thus requiring exactly (with the waste) 2 reams & 2 quins, which at 6½ dollars, amount to \$13.67 for the paper for one copy.

I can then have them printed at a price varying from 50cts. to 75cts per sheet, and have 25 or 50 impressions for the same price. Allowing this to be 75cts. (which is large) the cost for ~~the~~ printing the complete ^{work} will be \$750.00.

The covers cost me \$40.00 per hundred (in cloth), the specimen you have with a morocco back, can be afforded at \$65.00 per hundred, but all cloth is much prettier and equally as durable.

The expense of binding is about 37cts per volume, which added to 40cts for the case is, 77cts per volume — we then have the following statement —

Printing 25 copies	-\$750.00
500 covers for 25 copies (20 vols each)	- 200.00
Binding 500 vols at 37cts ea	- 185.00
53 Reams paper at 6.50	- 344.50
Add 5 Reams <u>more for waste?</u>	- 32.50
<u>Glue, Alcohol, &c</u> say -	<u>20.00</u>
Am't cost, total	\$1531.50

Now the sale of 25 copies at \$100 per copy will amount to \$2500.00 which if taken in single volumes at 6¢ (as many will) the sales will probably reach at least \$700.00 thus leaving a balance for my labor of only \$968.50 in the one estimate, and of \$1168.50 in the other.

Again, I do the binding myself, and, therefore, save the outlay there of 185.00 as included in the expense above - I purchase my covers in Boston of Messrs. Dean & Co. Water Street.

I am not a binder nor printer, but can do both - having bound the vols already out and set up the type of about one third of the book you have, so you see that I am quite a "Jack at all trades"!

Again, I expect the State to push me along a little, and hope to live long enough to complete a work, which, gives ^{me} more pleasure and joy than falls to the lot of many men.

I am under no obligation to give the State a copy of this work unless they ask me;

for my requirements are, merely a collection or a herbarium of the plants of the state. This matter, however, you have perhaps understood by reading my Preface — It is for the next Legislature to decide whether, they will have the one or the other.

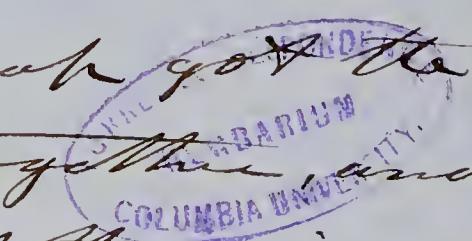
My paper is called "Fog paper" in New England and I should think a plenty of it might be found in New York. There is a plenty in Boston at any rate, and of different qualities varying very little in size — say $14\frac{1}{4}$ by $20\frac{1}{4}$ inches to 13×19 , and perhaps even larger or smaller. It is also fluctuating in price — sometimes as high as \$8.00 per Ream and at other times 6, 6.50 & 7.00, but can be had pretty generally at 7.00 by the single sheet and less for a number — All of our factories make it and I shall lose no time in seeing what I can do for you.

Mr. Crosby told me a few weeks since that, he would make me good paper at 45 lbs to the Ream for 12 $\frac{1}{2}$ cts per pound, which is just 5.00 — I will, however, see him again and let you know all about it. It may be necessary for me to have some made not quite so smooth as that I now use so that my plants will stick better — by the way, do you know of anything better than glue? I use now a mixture of rice-bone-glue and Gum Arabic which is powerful enough but somewhat brittle.

I have been in hopes that something would come out of "Webster's solution of gutta percha" and accordingly wrote to him about it - he replied that he had no doubt that it could be used advantageously and would try a plant and let me know - since which time I have not heard from him.

Some article is really wanted that possesses sufficient adhesive force, and at the same time a degree of elasticity that will not break - now, if you can think of anything I should be pleased to hear it. To men of science and others who know how to appropriate such a work the slightest adhesive power is sufficient, but, inasmuch as the work will be likely to be extremely handled - a pretty powerful glue or paste is needed.

I am really sorry that the title page should contain the error you mention. A few sheets were printed ere I detected it and ordered the correction which was done, but the printer by some mishap got the good and bad all mixed together, and some three or four volumes got them in - an error which cannot be accounted for in any other way than my p[ro]blindness. You are well aware of the confusion an author suffers in correcting proofs - his familiarity with the subject makes him a poor proof corrector - and, besides, he is the



last who loves to continually read his composition. There are ~~some~~^{SURREY COUNTY LIBRARY} other typographical errors which ought to ~~have~~^{been} been avoided, and which the proof sheets in my possession pointed out but the journeyman printer proved himself really unfaithful and has within a few days been discharged for his carelessness —

I have not perhaps myself, ~~taken~~^{noticed} the care in my composition that I really ought to, and consequently there are a few ungrammatical sentences or rather, perhaps, inelegant ones. However, my disposition to be brief & succinct will be readily commended, and hence the necessity of making ~~such~~^{sentences} the more literary reader would call bad, very bad taste.

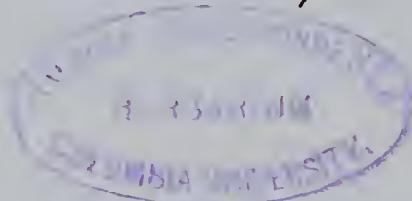
I go entirely under the opinion that, a good work, is well done, if very weakly performed.

I have no objection, and indeed, should be pleased to have my work left at the place you designate — and hope that you will do me the favor of informing you repture of the error so that it may be explained when noticed, and only then. I will send a new volume in the course of next month to supply its place and will take the liberty to make that house an agent for the work in New York. I have now to thank you for your kindness

in writing for me the letter to you. Same
is just the thing and I shall lose no
time in forwarding it with a volume of
the writer.

You did not tell me what
you thought of the Stellaria aquatica? I
send you - I have written in great haste and
must beg your indulgence for the inaccuracy
of the nomenclature.

Very truly yours
A. Gray, Jr.



LIBRARY
NEW YORK
BOTANICAL
GARDEN.

Dear Sir

Bangor June 6th 1848

Yours of the 2d inst was received yesterday evening. The work which you speak of will contain all the Cryptogamia - the first volume being quite well represented in *Lichens & Hypothecaria*.

It is my intention to issue from 2 to 4 volumes annually - should I receive that encouragement from our State necessary to establish its completion. Only 25 copies will be published - so copies are already spoken for - and, should you subscribe all these will ~~not~~ be but 14 left -

A proposition is now before the Legislature to take 10 copies, which, if passed, the first volume will be distributed immediately, and the second in October.

I cannot tell how long I shall be completing the work - perhaps 5 or 7 years - not quite so long as De Candolle's *Prodromus* I hope!

The extremely low price at which the volumes are offered will preclude the expense of the conveyance (by myself) to New York; however, I shall deliver them free ~~as far~~ as Boston to Western Subscribers.

In haste - I am
Respectfully Yours
A. Gray, Jr.

Given by A. M. VAIL, from J. D. BROOKS Collection

MAR 4 1907

